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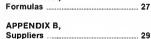




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# WARNING

The author, editor, and publisher do not a sume responsibility for the use of any of the information contained within this book. Those who choose to use this information incur all risk and liability, and are completely responsible for any damags, injury, or legal infractions.

The manufacture of explosive and pyrotechnic devices is very hazardous, and may even be illegal in some areas. Safety measures must be taken in order to avoid serious injury or death. Check federal, state, and local laws concerning the production of such devices.

# FOREWORD

The Ninja of feudal Japan were among the first to see the value of using smoke to assist that operations. Through the development and production of simple but effective smoke devices (and their matchless training and skill), the Ninje have learned to take the "timost advantage of the use of smake to activate their objectives.

The manufacture of smoke devices is part of the Ninja skill of yogen or chemistry which originated out of the in China and was imported to Japan during the 13th Century along with knowledge concerning betterfit the manufacture of firewarkand sunowder. The

13th Century along with knowledge concerning the manufacture of fireweakand gunpowder. The Ninja of this period, always eager for new technology, adopted the rudiments of this field. For hundreds of years since that time, the Ninja have discount of the property of the technology.

During the same course of time, the Ninja developed a special field of techniques and tactics to be used along with their amoka daviese. This body of knowledge is called Ka Ton Jitsu, the art of using firs and smoke for purposes of offense, defense, infiltration, and accape.

This manual is primarily divided into two parts. The first part deals with yogen, particularly, those areas of Ninja chemistry dealing with the manufacture of smoke devices. The second part involves a description of Ka Ton Jitau principles, strategies, not techniques for using smoke devices.

The complete procedures for manufacturing two types of Minja smoke greandes are included in these pages. The first:  $Type I_{c}$  is a basic device. The scond:  $Type_{c}I_{c}$  is a phasic device. The scond:  $Type_{c}I_{c}$  is an exposibilitized. Learn how to manufacture both of these devices to begin with. Using the various options given at the end of which the standard of the second of the

# PARTONE

# THE MANUFACTURE OF NINJA SMOKE DEVICES

#### SECTION 1: DEVICE TYPE 1; BASIC SMOKE GRENADE

List 1.1: Basic Smoke Formula

#### Red Smoke

Paranitranilane red—3 lbs.

Volium Potassium chlorate—1 lb.

Sugar—1 lb.

#### List 1.2: Materials Needed

Accurate measuring scale and Accurate measuring scale and the spoons (never metal) Disposable plastic gups (clear if possible)
Blooks of jake with life (for peasuring and storage)
Large sections of 200 metal acreen, or large wire kitchen strainers and the second of the strainers are sections.

Large sheets of peper (or newspaper)
A mixing device: Li a large jer with a lid, or 2) a
clear, tough plastic beg, or 3) a large tough paper
took agek

Punches; nails, and Exacto knives (for making exhaust ports in metal or plastic) One size to ounce metal or plastic canister (the grenade case) with a lid if possible

One candlessee
Melted wax (for waterproofing)
Plastic funnels Inches

Thin plable wire Cardboard for chips and spacers

List 1.3: Safety Precautions and Procedures

Wear safety goggles for eye protection
Wear a dust mask (optional)
Work in a well-ventilated area
Work in a spark-free environment (never strike
metal or metal around smoke powders)

Do not smoke or heve open flame near smoke powdere Store all smoke chemicals and devices away from small children and heat sources.

List 1.4: Production Steps for a Type 1 Device

1. Measure out the powdered chemicals asparately

2. Sift each of the chemicals separately, and then combine and sift them together.

Mix the chemicals thoroughly in the mixing device.

4 Resift the mixed chemicals

5. Select and prepare the grenade canister(s),

6. Fill the grenads conister with smoks

7. Install the fuee.

8. Cap and seal the device.

#### Detailed Description of Each Production Step

Step 1: Measure out the powdered chemicals separetely using an accurate scale, according to the formula (eee photo 1).

It is extremely important that all smoke formula powers be measured out by units of weight auch as ounces, pounds, or kilograms. Never measure powers out by units of volume such ascups, pints, powers out by units of volume such ascups, pints, programs. When a formula calls for 1 part of Part o



(for a larger batch). This rule will hold true for all of the formulas in this manual.

Next, when using the scale to weigh out the parts of a formula, do not include the weight of the measuring container. This may prevent the formula from functioning properly, Avoid this problem by placing the measuring container on the scale as an adquising the scale to zero. Once the scale is erred in, it will measure only the smount of powdered themicals, and not the weight of the origination of the scale is a scale and adjusting the scale is zero. Once the scale is greated in the scale in the scale in the part of the scale in the sca

Consulting the formula slove, measure out the part by weight, as instructed. The measurements are consulted to the state of the state o

Step 2: Sift each of the chemicals separately, and then combine and sift them together.

First, using the sections of 200 mesh screen (or optionally, the kitchen strainers), press each of the chemicals through separately, sifting them onto sheets of paper (see photo 2). Then lift up the paper by the corners and carefully pour the sifted powder back into the container (see photo 3).

After the chemicals are sifted separately, they must be combined and sifted together. Pour them



all together onto or into the sifting device, and push them through onto another piece of paper (see phote 4). The sifted compound that results is then ready for mixing. Above all else, keep the mixing device and the powders dry to avoid clogging during sifting.

Step 3: Mix the chemicals thoroughly,

Pour the combined and sifted mode compound into the mixing device. For Obvious Tessons, a clear mixing device for Obvious Tessons, a clear mixing device is better. A simple look will show whether the smake compound is thoroughly mixed or not. To mix, simply close the opening and shake the powders together, until they age blended? completely (see photo 51, To work Properly, the mixture must be wintform Bhorwhout, 25, 4-27).

#### Step 4: Resift the mixed chemicals.

Resift the compound exactly as described before in Step 2. Push the powder through the sifting device and onto a large sheet of paper. Carefully lift the paper up by the corners again, and pour the compound into a storage container and label it. The smoke powder is now ready for testing. If prepared properly, it should jenite easily at the





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touch of a match.

Test only a small quantity of the compound (no more than a spoonful or two). Do the testing outside in a safe areg where no fire will start. Burn the compound in a shallow tin can if possible (see photo 6). Once tested successfully, the smoke compound will then be ready for use in a smoke device.

Step 5: Select and prepare the grenade canister.

Select a canister for the grenade. For a Type 1 device, matal or plastic will usually do. Metal cans of the 16 ounce size and Variety (including beverage cans) will work well see photo 7). The container should be clean and dry.

Next, exhaust ports must be punched into the side of the canister to allow the smoke to escape. See figure 1 for exhaust port configurations. The

#### IMPROVISED NIN IA SHOVE DEVICES





FIGURE 1

exhaust ports can be made in metal cases with any punch, nail, or even a can opener (see photo 8). For plastic canisters, a nail heated over a candle will melt holes through, or an Exacto knife can be used to cut out the ports.

Install aix exhaust ports in one of the illustrated configurations. Once these have been made, they must be lifted on the inside with plastic wrap or a plastic bag (see photo 9), and coasted on the outside with tape and/or melted wax (see photo 10). This yell keep the powder dry and prevent it from spilling out of the exhaust ports. Yet, when the applies ais justiced, the places will burn through and byples as ignited, the places will burn through and byples as ignited, the places will burn through and

# Step 6: Fill the canister with smoke compound.

Using a funnel, if necessary, fill the canister loosely with the smoke compound (see photo 11).





Never ram or pack smoke powders. Remember to be careful to work in a spark free environment. Fill the case up to an inch or a half inch away from the top. There must be room to cap and seal the device (see photo 12).

#### Step 7: Install the fuse.

Cut the right length of fuse for the desired delay. Most fuse is sold in coils (see photo 13); test each coil to find its burn time and label it. Burn time can

#### INDEANISED NIN IA CHOKE DEVICES













PHOTO 13

#### be found by the following equation:

Burn time in seconds/length of test fuse

Therefore, if a S-inch section of fuse takes 15 seconds to burn from only go, ed., the burn time for seconds to burn from only go, ed., the burn time for the fuse is 3 seconds per inch. For a fuse delay of 8 seconds on a smoke grenada, two inches of fuse myste, protrude from the amoke compound. To maure proper ignition, cut the fuse so that one end touches the bottom of the canister, and the desired delay length protrudes from the top.

To secure the fuse beneath the cap, twist a light coil of thin pliable wire around the fuse (see figure 2). Then form a spring like coil (see figure 3). This will help prevent the fuse from falling or being pulled out of this canister. Insert both the fuse and the wire retainer into the center of the smoke compound of the grenate face figure 4).



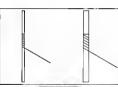


To cap the smoke grenade, use either the lid or cut a spacer disk out of cardboard that will fit the mouth of the device (see photo 14). Punch a hole in the centre of the lid for the fue. Slip the lid over the liberature of the lid on the fue. Slip the lid over the state of the lid on the lid over the lid shut with waterproof tape and seel the tap of the device with melted wax up to the point of the special paper of the pend of the lid shut with waterproof tape and seel the fue port are swith melted wax (see photo 16). A cut away diagram of a typical Type I device is above in figure 6. Once the wax has hardened, the device; ta ready for testing. Test the device outside; a seculated rare is best.

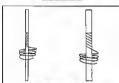
If these simple instructions are followed to the letter, it will be easy to produce safe and effective smoke greendees. Any of the formulas in Appendix A will work in a Type 1 device, but some of them may need the assistance of an igniter to start them burning.

#### Igniter Option

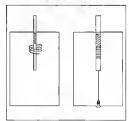
Two very effective igniter formulaa are also given in Appendix A, along with the smoke



# FIGURE 2



# FIGURE 3



# FIGURE 4

#### IMPROVISED NIN IA CHOKE DEVICES

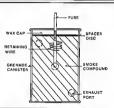




Persident

formulas. Each formula will designate whether or not an igniter is required along with it. Although many formulas do not need the assistance of an igniter, the Ninja chemist usually includes the igniter just to make the smoke grenade that much more reliable.





# FIGURE 5

Using an igniter is simple. During Step 6, when filling the canister, leave an extra half inch at the top and fill with igniter compound (see photo 17). Then follow Steps 7 and 8 as before. The fuse will light the igniter, which will in turn burn down and set off the smoke compound very effectively.

#### SECTION TWO DEVICE TYPE 2. ADVANCED SMOKE GRENADE

#### Exploding Smoke Cloud

To manufacture more complex and sophisticated devices, only a few additions and modifications to the basic procedure are required. Notice how many of the stens below for the production of a Tune 9 of the steps below for the produces of the steps below for the produce of the steps of the step of the changed from those for a Type I device Peter back to the Type 1 section for a detailed description of the repeated steps

#### List 9 to Dania Formula

Dical Smale Ivory Black-1 lb. 3739 Sugar-1 lb 373 Kolumpotassium chlorate-3 lbs.71 43 Rosin-1 lb. 343

List 2.2: Additional Materials

A vard of thin cloth

String Kitchen matches Zeichholzet

Gunnowder or explosive nowder verammal

(In addition to these items, assemble the same materials required as for Section 1)

List 2.3: Safety precautions and procedures

Same as in Section 1

List 2.4: Production Steps for a Type 2 Device.

- 1. Measure out the powder chemicals separately. according to the formula \*
- 2. Sift the chemicals separately, and then combine and sift them together\*
- 3. Mix the chemicals thoroughly in a mixing device \*
- 4. Resift the mixed chemicale \*
- Select and prepare the grenade canister. Reiherna
- Prepare a friction type fuse mechanism.

Verbreitung darrina

- 8 Will the case and insert the diffusion charge
- 9. Can and seed the doring \*
  - \* Indicates that the sten is the same as described in Continu 1

The following are detailed descriptions of the modified and additional steps for producing a Type 2 device

Step 5: Selecting and preparing grenade canisters (modified from Section 1)

Follow the same instructions as for a Type I device, but use a smaller canister—such as a 4-75 ounce can (see photo 18), and add more exhaust ports (use at least a total of two lys). See figure 6 for possible exhaust port configurations for an exploding smoke cloud. Type 2 devices need more exhaust ports in order to allow the smoke to expand more rapidly



Step 6: Prepare a friction fuse mechanism. intelligent suverlance

A more sophisticated and reliable fuse device can be made by surrounding the fuse with kitchen matches (see figure 7). The match sticks can be cut to length just as the fuse, to fit the desired delay

#### IMPROVICED NIN IA CHOKE DEVICES

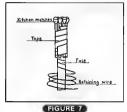


## FIGURE 6

length. Add a wire retainer just as for a Type I fuse (see photo, 19) Once installed, no lighting tool is required. Scrape the match heads against a rough surface, such as a piece of sandpaper. The burning match heads will insure proper fuse ignition. This is the simplest type of friction fuse device. Even more sonhisticated versions will be presented in the options listed at the end of Section 2.

Sten 7: Prenere a diffusion charge and insert the fuse device.

An exploding smake cloud requires a small diffusion charge to force the smoks nowder surrounding it out of the exhaust norts and into an instant cloud. To emphasize, it must be a small



charge. Ninja often use these devices in close instant smoke burst, not a hand grenade-like explosion. The diffusion charge should be just large enough to blow out the smoke powder, not send shrapnel flying. A few ounces of explosive nowder is often enough

To make the diffusion charge, pour a few ounces of explosive powder onto the middle of a three inch \$ 5% square of thin cloth (see photo 20). Gather the cloth









up into a tight little sack and insert the friction fuse mechanism (the type described above in Step 6) into the center of the charge. The the top of the charge off tightly with a piece of string. The explosive diffusion charge is now ready (see photo 21).



# PHOTO 21.1

Step 8: Fill the case and insert the diffusion charge.

This step is modified from Section 1 to the extent that during the filling of the case, the diffusion charge is inserted into the enter of the smoke powder. The top of the fuse device, however, must profettude above the cap—even in short delay devices. See figure 8 for a cut away diagram of a Tune 2 smoke device.

#### Options

Another way to make a Type 2 smoke device is to substitute a larger cloth hag for the canister. This seem the chance of flying shrapnel, even more. The bag can be made from a nine inch

ZZ CM



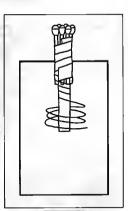


PHOTO 21.2

Medich to

square of cloth. Line it with plastic wrap or a pleasic big. This will take the place of Step 5. Discounting the control of th

Les on the galactic form fuer mechanisms described a facility of the property of the service of

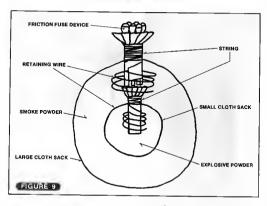
FIGURE 8

Type 1: The Pull Type Friction Device.

The pull type mechanism can be reedily purchased and is inserted over the fuse. A simple pull of the ring or wire ignites the fuse and sterts it burning (see figures 10, 11 and Appendix B).

# Type 2: The Striker Type Friction Device.

This friction type mechanism is excellent for use in short delay devices (each as Type 2 device, see Section 2). This type of fuse igniting is very similar in principle to that which is found on simple emergency flares. There are two ways to make such devices, which consist primarily of two parts: the striker and the ignifier.



Both methods use the same chamical found in emergency flares. The oaisiet way to obtain the striker compound (the red material) and the ignifier compound (the black material) is to remove the substances from inexpensive emergency flares and transfer them to amoke devices. The striker is considered them to amoke devices. The striker is more consideration, since its usually nothing more than needlessing, since its usually nothing more than removed from the flare growing the striker is removed from the flare growing the striker is then dissolved in a small magnet of carbon them dissolved in a small magnet of carbon

tetrachloride, a common degreasing solvent found

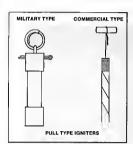
in most auto shops. Danger

Line

Dissolve the black substance in the Carbon Tetrachloride wither outside or in a well-ventilated area only. The resulting fames are toxic. Avoid breathing them as much as possible. Use only Losung

enough solvent to dissolve the mixture and then let the liquid evaporate in a well-ventilated srea. The less liquid, the faster the evaporation.

What will remain after evaporation will be a grev powdery substance. Mix this grey powder with a bit of water to make a thick, sticky compound. Dip fuses into the substance and allow them to dry. They will then ignite when struck with the striker. This substance will also make the lighting of fuses by other methods much easier. Ninia carry striking blocks or pads strapped to their fingers, wrists, or to the backs of their hands. Linnapmettal A string or cord can be tied to or through a striker so that it can be worn on the wrist, belt, or around the neck (see photo 22). To light a device, first, cover a fuse with the black igniter substance, and then scrape the igniter with the striker just as one would light a kitchen match or an emergency flare. Rubbing the striker against the igniter produces the necessary friction to light the igniter.



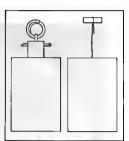


FIGURE 10

FIGURE 11





which in turn lights the fuse (see photos 23, 24). Another way of gaining access to the striker and igniter compounds is simply by manufacturing them directly.

### Red Striker Compound Formula

#### Chemical-parts by weight

Dextrine-2 lbs. 246 % Wholesaur Mucilage (drug store variety)-3 lba. Red Phoaphorous-5 lbs. 19650 Sand (fine grade)-3 lbs. 4.119 a

> Mix the ingredients and then add a sufficient amount of water to make a slightly thin paste. Smear this on the striking device and allow it to dry. Make sure that the sand is mixed well before applications. Objects that make good strikes are large buttons, belt buckles, arm bands, and clips on pins or novelty buttons (see figure 12).

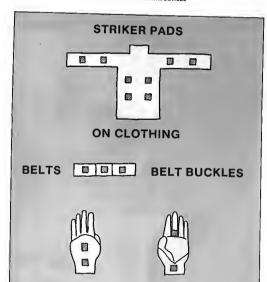
Chemical-Parts by weight

Black Antimony Sulfide (wet)-3 lbs. Devtrine-2 lbs. (or Mucilage-3 lbs.) Potassium Chlorate (wet)-5 lbs.

#### Danger

If mixed when dry, the black antimony sulfids and the potassium chlorate will explode. Wet both of them down before mixing. Add the thickening agent (dextrine mucilage or dis) and dilute with enough water to form a thick, sticky paste, Dip the fuses into this mixture and allow them to dry (see nhato 25). When scraped quickly against a striker or lit with a match, the dried compound will ignite h the fuse. Any amoke device, however large or small, no

matter which formula is used, is based upon the two types discussed in the production sections, Sections 1 and 2. Once an individual possesses the knowledge of how to make such devices, however, they must learn how to use them to perform escapes and retreats, or infiltrations and attacks.



WRISTS AND HANDS





### PARTTWO

#### SECTION 1: INDIVIDUAL KATON JITSU SKILLS FOR USE WITH SMOKE DEVICES

If a Ninja ia on a mission, he or she will normally carry at least two Type I moke devices. In battlefield situations, each Ninja may carry twice that many. A Ninja will also carry two amall Type 2 devices at all times, and so many as six if on a mission or in the field.

Snoke devices are normally ignited and placed strategically so that the smoke will astell a strategically so that the smoke will astell as check which way the wind is blowing. As the davice becomes hot whan ignited, do not hold onto it or place it among combustille materials. This is not always a content in fa fire starts, it may be so much the better for one's gunroses.

The fuse can be lik with any lighting devices or abbade state of the state work well, and matches or abbade state of the s

as hand.

The following is a gigst of personal options available to a Ninja, fortingers upon igniting a second device. These actions are primarily evasive, with the understanding that the Ninja can shift through the same of the same and th

- 1. Ignite smoke device.
- 2. Take evasive action.

in another direction

- A. Attack and escape.
- B. Under the cover of smoke, flee the area as quickly as possible, making good use of other cover and concealment as well.
- cover and concealment as well.

  C. Hide and let pursuers go past; then escape

D. Hide and make the enemy think that the intruder has gone by opening a door or window, Escape when enemy gets tired of looking and gives up.

#### Hiding and Concealment Tactics

Above all else, when using hiding tactics, remain completely still and silent. Do not look at fees directly or they may sense a presence, having the feeling that someone is watching them. Always be ready to fight or to quickly silence enemies if discovered

- 1 Hide above pureners
  - A. In trees
  - B. Among rocks.
  - C. On ropes or ladders.
     D. In or on buildings.
- 2. Hide below pursuers:
  - A. Fall flat on the ground at night.
- B. Crouch behind or among objects, beneath the average level of sight.
- C. Slip down into a concealed pit or secret tunnel.
- D. Hide among reeds, under a river bank, or under water.
  - E. Hide under objects (cars, furniture, etc.).

# Evasive Actions

- Open, close, lock, jam, or spike shut doors and windowa.
  - Knock down or throw objects behind, into the path of pursuers.

 Drop booby traps (tetsubishi, grenades, etc.) behind for pursuers to run into.

#### Decentions

- Open or break through a door or window, making pursuers think that someone has gone either out or in.
- Throw a heavy object into a body of water to make a loud enough splash for enemies to think that someone has dived, jumped, or fallen in it.
- 3. Hide momentarily, and have a nearby partner draw off the nursuit.
- 4. Drop s dummy grenade to scatter or delay pursuera. If pursuit continues, drop a live grenade. Enemiss will often think it to be a dud as well, and will ruah right into it.
- 5. Drape a cloak, blanket, or rain poncho over a bush, stump, chair or other auch object to simulate the form of a person.
- 6. After hiding, use a disguise to escape.

#### Distractions and Delaying Tactics

1. Simulate or start fires.

1. who

- Have partners cause a disturbance in another area.
- 3. Leave a small recording device in a specific rom or area, with a specially recorded distracting sound (such as voices, shouting, gunfire, etc.). Leave a certain amount of blank time on the tapturn the volume up, and set it on play. The blank delay portion will play through until it reaches the desired sound effect distraction.
- 4. Lead guards, sentries, or pursuers deliberately into prearranged booby traps, mines, or ambushes.

#### SECTION 2: NINJA STRATEGIES AND TECHNIQUES FOR USING SMOKE DEVICES

The Ninja primarily use smoke devices for two main purposes: 1) Attack (Insertion and/or Infiltration), and 2) Retreat (Evasion and/or Escape). Each of these strategies and the techniques involved call for certain levels of acception, and distraction, and obscuring movement.

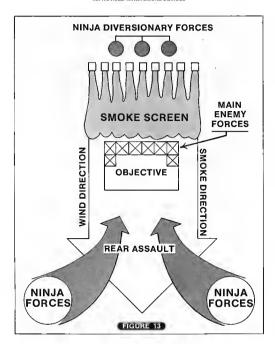
#### Attacking: Insertion and Infiltration

On the individual of the stand level, smake, devices can be thought of the stand level, smake, devices can be the stand of the stand level, smake, devices can be the stand level, smake the standard level, smake the smake the standard level, smake the standard level, smake the standard level, smake the smake t

Timing of the insertion or infiltration is of the utmost importance. Onlookers should be looking somewhere sless, gone to get help, or completely blinded by the smoke. Silence must be carefully maintained, however, because although the smoke obscures vision, it will not inhibit sound in any

way. On the larger squad level, smoke screens will conceal the movements of a frontal, rear, or flanking assault. The Ninia know from experience that a blinded opponent is nearly helpless. Enemies who cannot see, cannot fight effectively. For example (see figure 13) a Ninia assault force can set up a smoke screen so that it will pass through a target area from one end to the other, such as from front to rear Judging from the direction of the incoming smoke screen, the enemy will most likely be expecting a frontal assault and will prepare for such. To aid the element of distraction and deception further, the Ninia could make an apparent show of an impending frontal assaultcomplete with the feigned (or recorded) sounds of troops, firing weapons, or even vehicles.

As the sensity brices for the froutel states, their forces will most likely become 'rigid, loosing their flexibility. Their, 'insiend of the expected frontal attack, the Nins will attack from the rear—still conceased by the incoming smake streen as it proposes through the intended new streen as it posses through the intended new streen as all or part of its forces to deall with the rear assault and part of its forces are free to femil, attack, or retreat in any direction to confuser fright bean the sname and any direction to confuser fright bean the sname and



gain the advantage. As long as the enemy cannot see how many Ninja are attacking or from what direction, opponents will be hard pressed to

If the wind changes, amoke acreene can be imited in qbler areas to compensate. The Ninja may even feint in various directions until they find a weakness in the enemy's defenses, and then attack in force to capitalize on it, Mbpg amoke is propely used, the enemy must fessivit to second guiesting in the midst of confusion, and the Ninja will be in control of the situation, possessing the

#### Retreating Evacion and Escape

The same principles, strategies, and techniques used for stracking can be applied to retreating as well. On the individual or small squad level, smoke devices provide the necessary distraction and/or concealment of activity and movement necessary for evasion or escape. Let A

Imagine that a Ninia is being classed by enemies down a corridor or hallway. While running the Ninia sets off a smoke cloud or other device. The pursuere may rush into the smoke cloud, or they may healtate before entering it fearing that they may be walking into a surprise attack or booky tran (which, of course, the Ninis 1S completsly canable of doing). In any case for an instant they have lost sight of the Ninia. That instant is all the time that a trained Ninia needs. The Ninia may very well drop some booby trap such as tetsu-bishi (caltrons), toss a hand granade over his shoulder as he rounds a corner or ducks into another chamber, and then make good his escape. At times a Ninia will hide in an area, under the very noses of his enemies, and make them think that he has already fled or escaped. The Ninia can let his foes ness him by, being prepared to dispatch them if he is discovered again...

The enemy may rush through the smoke doud, jn, bg, pursait, wait until the cloud clears, or priceed cautiously into the smoke. It is up to the Ninja to use the situation to his advantage. The trained Ninja knows that most people assume that an open door or window represents a sure sign that someone has gone through it. He may open or break through a door or window to escape, or to diver his pursairs by making them think he had not not be to be the sure with the same than th

gone. The Ninjs may escape covertly, or openly with the aid of a disguise. Using a disguise, things may escape in broad daylight, right under the noses of the enemy. The basic concept at work in hoth of these strategies is to use the enemys natural expectations and assumptions against

thom On the larger sound level such as the tactical hattlefield smoke screens provide cover to break off an essault regroup and counterattack or ambush delay or destroy pursuing forces. Even superior forces will besitate chasing after the Ninis once the enemy learns that deadly booby trans and rear mand assault teams silent am. bushes and mine fields are weiting to make such pureuit uery coetly. Runners could even divert the nursuers off the track of the main force leading them if nossible into a deathtran (such as a mine field or a silent ambush) Under the cover of smoke the enemy cannot see what they are Sheet 1sto. fighting

The optimum getseat strategy is to contain the enemy forces by inning them down, or at the very least, slowing them down with horizontain the main group retreats, then folding the group up and up—fading into the emoke and disappearing like phontoms. The best retreats occur when the enemy realizes only too late that the Ninja are corre-



# APPENDIY A FORMIII.AS

Remember that all nowders should be sifted and mixed thoroughly in a spark free environment.
Powders should be tamped lightly, never packed or rammed All parts listed are by measures of weight, never by measures of volume. Any scale or system of weights can be used. Each of the formulas presented below is senerate from the others and should be used individually Never combine formulas or parts of formulas

#### Black Smoke

## Formula 1 \*1

Hexachloroethans-3 60% Nanhthalane\_1 Magnesium Powder-1

Formula 2

Jorden Tvory Black\_1 19% Walin Potassium Chlorate 3 ' 50% Rosin-1 Wolookonumics. Sugar-1 /cur

#### Formula 3 \*1

Charcoal-1485 Lampblack 1
Realgar—1 Resign-1 Koloskonuum Saltpeter-4 50 %

### Formula 4 \*T

Hexachloroethane-20 Magnesium Powder-9 25% Naphthalene-7

Formula 5 \*I Alpha Naphthol-3 7.2% Aluminum Powder-2 04.8% Anthracene-1 2.4% Charcoal (fine grade)-5 42% Hexachloroethane-12 2839 Saltpeter-16 28,7% Sulfur-2.5

#### White Careles

#### Formula 1 \*1

Chargool (fine grade) 1349 Saltneter\_12 4 " Sulfur-16 54.6 0

#### Farmenta 9 87

Ammonium Chloride (fine grade)-1 16.72 Potassium Chlorate-3 Rosin-1 Volopagni V in 16 Can Sugar\_1 -6 6 %

#### Eormule 3 \*I

March Links Potassium Chlorate 3 42.2% Salammonisc (fine grade)-3 43 to Sugar-1 14 / 2

# Formula 4 \*T

Hexachleroethane-1 Zinc Dust-2

# Formula 5 \*I

Hexachloroethane-25 Zinc Dust-14 Zinc Oxide-11

#### Formula 6 \*1

Ammonium Chloride—1 2. Velia Potassium Chlorate-3 603 Sugar-1

#### Red Smoke

#### Formula 1 \*I

Paranitranilane Red-3 60% Kalism Potassium Chlorate-1 20% Sugar-1 cos

(\* Uac Igniter)

#### IMPROVICED MINIT SMOKE DEVICES

#### Formula 2

Diethyleminorosindone—24 4 8 % 12.150 Potassium Chlorate-13 20 av Sugar\_13 262

Formula 3 \*1

Antimony Sulfide 4 46% Gum Arabic—1 4 % Valid m Potassium Perchlorate-5 20% Rhodamine Red-10 00%

Formula 4 \*1

Auremine\_2 10% Chrysoidine-6 302 Chrysoiune—0 Sugar-5 252

Formula 5

Methylaminianthraquinone-21 42.52 Potassium Chlorate-13.5 27.5 % Sodium Bicarbonate-10 00% Sulfur-5 40%

Vellow Smoke

Formula 1

Mehr Antimony Sulfide-176 ° Meal Powder-1 00 v Red Arsenic-1 200 Saltpeter-1 20 % Sulfur-1 20 w

Formula 2

Beta-Naphthslene Azodimethylaniline - 5 4 5 52 Potassium Chlorate-3 2 32 Sugar-3 27, 2%

Formula 3

Auremine-11 33.3% Chrysoidine-3 9% Sugar-8 24,3% Kaliva Potassium Chlorate-11 33.4%

Formula 4

Auramine 0-1338,3% Walius Potassium Chlorate-7 217% (\* Use Igniter) 1/tim Sodium Bicarbonate-10 20 % Sulfar 2 4 %.

Formula 5 \*I

Paranitranilane Vellow-2 50% % Paramtranuane renow-25 % Snoar\_1 2.6 %

Carra Carraina

Formula 1 \*I

Auramine\_3 45.7% Indigo (synthetic) -5 26 32 Potassium Chlorate-6 317 % Sugar-5

Formula 9

Auramina 0 6 12 % 1 4-D-P-Toluidinoanthraquinone-14 3 8 % Malion Potassium Chlorate-13 26 % Nathiven Sodium Bicarbonate-12 24% Sulfur-5 20 1

Formule 3

Auramine-574.7% Indigo-9 26.4 % Walium Potassium Chlorate-11 32.5 % Sugar-9 264%

Formula 4 \*I

Antimony Sulfide-5 227% Gum Arubic-1 4 5% Malachite Green-10 & 6. 4 % Potassium Perchlorate-627.4 %

Blue Smoke

Formula 1 °1

Indigo (synthetic)-8 40 % Potassium Chlorate-7 35 % Sugar-5 25 %

Formula 2

1, 4-Dimethylaminoanthraguinone-2 50% Potassium Chlorate-1 25% Sugar-1 of 2

#### Formula 2 91

Antimony Sulfide—4 20% Gum Arabic—1 5% Methylene Blue—10 5% Potassium Perchlorate—5 25%

#### Lonitore

#### Formula 1

Dextrine—0.6 3 %%
Red Arsenic—3 7 8 %
Saltpeter—10 60,4 %
Sulfur—3 7 8 %

#### Formula 9

Dextrine—1 4.3% Red Arsenic—4 47,3% Saltpeter—14 67 % Sulfur—4 47,4%

### Formula 3

Chlorate Potassium—3
Charcoal (fine grade)—1
Nitrate Strontia—3
Red Gum—0.5

# Formula 4

Antimony Sulfide—4 10.2% Meal Powder—4 10.8% Saltpeter—24 6 4/3 % Sulfur—5 1365

#### (\* Use Igniter)



# APPENDIX B:

# Suppliers and Sources for Chemicals:

Capitol Fireworks 1805 West Monroe Street Springfield Illinois 82704

The Chemical Shed 944 E. Baseline San Bernardino, California 92410

City Chemical Corp 132 W. 22nd Street New York, New York 10011

D & R Enterprises P.O. Box 14741 Cleveland, Objo 44114

Hagenow Laboratories 1302 Washington Street Manitowic, Wisconsin 54220

Merril Scientific 1665 Buffalo Road Rochester, New York 14624

Richard O. Wolter 326 Summit Court Schaumberg, Illinois 60193

Westech Corporation P.O. Box 593 Logan, Utah 84321

Each of these suppliers require a \$2.00 fee for lists of their chemicals and other supplies.

Supplier of Fuse and Pull Type Igniters:

Phoenix Systems Inc. P.O. Box 3339 Evergreen, Colorado 80439

Send \$1.00 for a catalog

At last, the secret of manufecturing Ninja smoks producing devices is revealed. In this book, Toshitora Yamashiro, Grandmaster of the Nine Shadows of the Koga Riyu (author of Deedly Waspora of the Koga Riya), sxplains in explicit detail the fine art of Yogan (Ninja chemistry). Learn the simple procedures for making smoks devices from readily available supplies, Sections on strategy and techniques stall how to evede the snemy, vanish jinga an exploding smoks cloud and create distractions. This manual is step-by-step, fully illustrated with many secrets naver before printed and provides one more skill of the is acendary Kogan Ninja.